

(FILE 'HOME' ENTERED AT 16:19:05 ON 09 JUL 2002)

FILE 'BIOSIS, CAPLUS, EMBASE, MEDLINE, CANCERLIT' ENTERED AT 16:19:24 ON
09 JUL 2002

L1	1995 S (PERISTALTIC PUMP)
L2	312 S L1 AND PRESSURE?
L3	495 S L1 AND MICRO?
L4	65 S L2 AND L3
L5	1 S L4 AND VACUUM?
L6	0 S L2 AND ARRAY?
L7	9 S L1 AND ARRAY?
L8	9 DUPLICATE REMOVE L7 (0 DUPLICATES REMOVED)

L8 ANSWER 6 OF 9 CAPLUS COPYRIGHT 2002 ACS
 AN 1997:783808 CAPLUS
 DN 128:1681
 TI Portable modular blood analyzer with simplified fluid handling sequence
 IN Savage, Douglas R.; Lawrence, Ronald L.
 PA Sendx Medical, Inc., USA
 SO PCT Int. Appl., 31 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 IC ICM G01N035-10
 CC 9-1 (Biochemical Methods)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9744672	A1	19971127	WO 1997-US8737	19970520
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	US 5980830	A	19991109	US 1996-650341	19960520
	AU 9730767	A1	19971209	AU 1997-30767	19970520
	EP 990158	A2	20000405	EP 1997-925710	19970520

R: DE, FR, GB, IT

PRAI US 1996-650341 19960520
 WO 1997-US8737 19970520

AB A portable, modular blood analyzer capable of analyzing multiple blood values in an inexpensive, relatively simple, easy-to-use and easy-to-maintain instrument. The invention comprises a three-part system including an analyzer body, calibrant cartridge, and sensor cartridge. A modular calibrant cartridge is insertable into the analyzer body, and contains all necessary calibrant fluids as well as a waste container. A modular sensor cartridge having integral pump tubing plugs into the analyzer body for easy removal and replacement of the sensor elements. The analyzer body internally has modular units including an electronics module, a display module, and a fluidics/printer module. The analyzer uses a single pump head to aspirate blood only to a sensor **array** within the sensor cartridge. This action is accomplished by aspirating blood by rotating a **peristaltic pump** in one direction during a first portion of an anal. cycle, and by reversing the pump and flushing the blood from the sensor cartridge with fluid pumped from the opposite direction during a second portion of an anal. cycle. Accordingly, blood contacts only a small portion of the analyzer mechanism, most of which is disposable. Because all valves are downstream from the single pump, no blood products pass through any valves. The analyzer fluid handling section is easily cleaned by removal of the sensor cartridge, yielding a single tube pathway. A short path length for blood travel permits using blood samples as small as 200 .mu.l. The analyzer is light and modular in design and is fully automatic.

ST portable modular blood analyzer

IT Blood analysis

(Portable modular analyzer; portable modular blood analyzer with simplified fluid handling sequence)

IT Pumps

(peristaltic; portable modular blood analyzer with simplified fluid handling sequence)

IT Sensors

(portable modular blood analyzer with simplified fluid handling sequence)

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L8	9 DUPLICATE REMOVE L7 (0 DUPLICATES REMOVED)

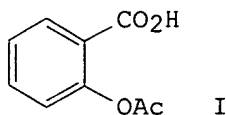
L8 ANSWER 7 OF 9 CAPLUS COPYRIGHT 2002 ACS
AN 1992:583786 CAPLUS
DN 117:183786
TI Automated analysis of plutonium solutions over a wide range
AU Burns, D. A.; Wangen, L. E.; Mendoza, P.; Randow, M.; Lujan, E.; Temer, D.
J.; Jackson, D.
CS Chem. Laser Sci. Div., Los Alamos Natl. Lab., Los Alamos, NM, 87545, USA
SO Proc. Int. Conf. Facil. Oper.-Safeguards Interface, 4th (1992), Meeting
Date 1991, 213-19 Publisher: Am. Nucl. Soc., La Grange Park, Ill.
CODEN: 58EFAK
DT Conference
LA English
CC 79-2 (Inorganic Analytical Chemistry)
Section cross-reference(s): 71
AB A system is described that automates the spectrophotometric anal. of
plutonium solns. over the concn. range 40-250 g/L. Segmented-Flow Anal.
(SFA) has been employed with the following system component: an ISCO
autosampler, Vitro Technologies flow cell, an Alpkem multichannel
peristaltic pump, a Hewlett-Packard diode **array**
spectrophotometer, an IBM PS/2 computer, and fiber optics. The system
operates on a 90-s cycle (60 s sampling and 30 s washing), performs an
online 22-fold diln. of an 81-.mu.L sample with the reagent (ascorbic acid
in 1N HCl), and generates 2.5 ML of waste per anal. Precision is about
0.2% RSD, and hardcopy output is produced.
ST plutonium soln analysis automated spectrophotometry
IT Spectrometers
(automated, for anal. of plutonium solns. of wide range)
IT 7440-07-5, Plutonium, analysis
RL: ANST (Analytical study)
(anal. of solns. of, by spectrophotometry, automated system for)

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 DN 128:1681
 TI Portable modular blood analyzer with simplified fluid handling sequence
 IN Savage, Douglas R.; Lawrence, Ronald L.
 PA Sendx Medical, Inc., USA
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	R: DE, FR, GB, IT				
PRAI	US 1996-650341		19960520		
	WO 1997-US8737		19970520		
AB	<p>A portable, modular blood analyzer capable of analyzing multiple blood values in an inexpensive, relatively simple, easy-to-use and easy-to-maintain instrument. The invention comprises a three-part system including an analyzer body, calibrant cartridge, and sensor cartridge. A modular calibrant cartridge is insertable into the analyzer body, and contains all necessary calibrant fluids as well as a waste container. A modular sensor cartridge having integral pump tubing plugs into the analyzer body for easy removal and replacement of the sensor elements. The analyzer body internally has modular units including an electronics module, a display module, and a fluidics/printer module. The analyzer uses a single pump head to aspirate blood only to a sensor array within the sensor cartridge. This action is accomplished by aspirating blood by rotating a peristaltic pump in one direction during a first portion of an anal. cycle, and by reversing the pump and flushing the blood from the sensor cartridge with fluid pumped from the opposite direction during a second portion of an anal. cycle. Accordingly, blood contacts only a small portion of the analyzer mechanism, most of which is disposable. Because all valves are downstream from the single pump, no blood products pass through any valves. The analyzer fluid handling section is easily cleaned by removal of the sensor cartridge, yielding a single tube pathway. A short path length for blood travel permits using blood samples as small as 200 .mu.l. The analyzer is light and modular in design and is fully automatic.</p>				
ST	portable modular blood analyzer				
IT	Blood analysis				
	(Portable modular analyzer; portable modular blood analyzer with simplified fluid handling sequence)				
IT	Pumps				
	(peristaltic; portable modular blood analyzer with simplified fluid handling sequence)				
IT	Sensors				
	(portable modular blood analyzer with simplified fluid handling sequence)				

8 ANSWER 8 OF 9 CAPLUS COPYRIGHT 2002 ACS
 AN 1982:478800 CAPLUS
 DN 97:78800
 TI Microencapsulated acetylsalicylic acid. An automatic spectrophotometric method for release determination
 AU Bongiovanni, G.; Giani, C.; Innocenti, F.; Maccari, M.; Pogliano, L.
 CS Cinisello Balsamo, Eurand Italia Spa, Milan, Italy
 SO Boll. Chim. Farm. (1982), 121(3), 106-16
 CODEN: BCFAAI; ISSN: 0006-6648
 DT Journal
 LA English
 CC 63-5 (Pharmaceuticals)
 Section cross-reference(s): 64
 GI

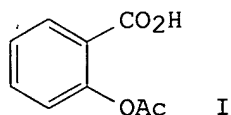


AB A continuous automatic method for the detn. of per cent release over time of microencapsulated acetylsalicylic acid (ASA)(I) [50-78-2] in a single buffer soln. at pH 1.3 is described. The automatic line comprises a 6-position Rotating Paddle App. (USP XX), a 6-channel **peristaltic pump**, and a computerized spectrophotometer capable of reading simultaneously and in real time, in 6 cells of 2 mm optical length, the absorbances of the 6 solns. by direct spectrophotometry at 278 nm. The results, assessed statistically, are in excellent agreement with those obtained with the well-tested manual method (Rotating Bottle). Two-factor variance anal. shows that the variability assocd. with the position factor is not statistically significant; also, by cumulating that variability with the residual error (casual variability), the mean coeff. of variation for the whole **array** of measurements is only 1.34%.
 ST aspirin release microcapsule spectrophotometry
 IT 50-78-2
 RL: BIOL (Biological study)
 (release of, from microencapsulated prepns., automatic spectrophotometry for detn. of)

L8 ANSWER 9 OF 9 CAPLUS COPYRIGHT 2002 ACS
 AN 1977:160920 CAPLUS
 DN 86:160920
 TI REX, a computer controlled robot for in situ water quality monitoring
 AU Birch, K. N.
 CS Sci. Support Div., Canada Cent. Inland Waters, Burlington, Ont., Can.
 SO ASTM Spec. Tech. Publ. (1975), 573(Water Qual. Parameters, Symp., 1973), 437-55
 CODEN: ASTTA8
 DT Journal
 LA English
 CC 61-2 (Water)
 AB A new, computer-oriented system for effective in-situ monitoring of water quality comprises a sensing head consisting of a **peristaltic pump**, a servo positioned valve, an **array** of 6 electrodes (2 glass pH, 3 Ag-AgCl and 1 Au microelectrode) and a thermistor, along with buffer amplifiers and motor controllers to serve these devices. The main feature is its design as a remote computer peripheral, like a teletype, which understands up to 64 different commands and which returns coded responses. The entire sensor head is submersible and operable in depths to 100 m. The working system monitors temp., cond., pH, dissolved O, Cl-, total CO₂, total alky. and a factor called other ions.
 ST monitor computer controlled water; ion detn water computer monitor
 IT Sampling
 (of water, computer controlled robot for)
 IT 7732-18-5, analysis
 RL: ANST (Analytical study)
 (monitoring of, computer controlled robot for)

L8 ANSWER 7 OF 9 CAPLUS COPYRIGHT 2002 ACS
AN 1992:583786 CAPLUS
DN 117:183786
TI Automated analysis of plutonium solutions over a wide range
AU Burns, D. A.; Wangen, L. E.; Mendoza, P.; Randow, M.; Lujan, E.; Temer, D.
J.; Jackson, D.
CS Chem. Laser Sci. Div., Los Alamos Natl. Lab., Los Alamos, NM, 87545, USA
SO Proc. Int. Conf. Facil. Oper.-Safeguards Interface, 4th (1992), Meeting
Date 1991, 213-19 Publisher: Am. Nucl. Soc., La Grange Park, Ill.
CODEN: 58EFAK
DT Conference
LA English
CC 79-2 (Inorganic Analytical Chemistry)
Section cross-reference(s): 71
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plutonium solns. over the concn. range 40-250 g/L. Segmented-Flow Anal.
(SFA) has been employed with the following system component: an ISCO
autosampler, Vitro Technologies flow cell, an Alpkem multichannel
peristaltic pump, a Hewlett-Packard diode **array**
spectrophotometer, an IBM PS/2 computer, and fiber optics. The system
operates on a 90-s cycle (60 s sampling and 30 s washing), performs an
online 22-fold diln. of an 81-.mu.L sample with the reagent (ascorbic acid
in 1N HCl), and generates 2.5 ML of waste per anal. Precision is about
0.2% RSD, and hardcopy output is produced.
ST plutonium soln analysis automated spectrophotometry
IT Spectrometers
(automated, for anal. of plutonium solns. of wide range)
IT 7440-07-5, Plutonium, analysis
RL: ANST (Analytical study)
(anal. of solns. of, by spectrophotometry, automated system for)

8 ANSWER 8 OF 9 CAPLUS COPYRIGHT 2002 ACS
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 CS Cinisello Balsamo, Eurand Italia Spa, Milan, Italy
 SO Boll. Chim. Farm. (1982), 121(3), 106-16
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 DT Journal
 LA English
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 IT 50-78-2
 RL: BIOL (Biological study)
 (release of, from microencapsulated prepns., automatic spectrophotometry for detn. of)

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 CODEN: ASTTA8
 DT Journal
 LA English
 CC 61-2 (Water)
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ST monitor computer controlled water; ion detn water computer monitor
 IT Sampling
 (of water, computer controlled robot for)
 IT 7732-18-5, analysis
 RL: ANST (Analytical study)
 (monitoring of, computer controlled robot for)

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L5 1 S L4 AND VACUUM?
L6 0 S L2 AND ARRAY?
L7 9 S L1 AND ARRAY?
L8 9 DUPLICATE REMOVE L7 (0 DUPLICATES REMOVED)

FILE 'ADISALERTS, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, AQUASCI,
BIOBUSINESS, BIOCOMMERCE, BIOSIS, BIOTECHDS, BIOTECHNO, CABA, CANCERLIT,
CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB, CROPU, DGENE, DRUGB,
DRUGLAUNCH, DRUGMONOG2, DRUGNL, DRUGU, DRUGUPDATES, .' ENTERED AT
16:45:37 ON 09 JUL 2002

L9 14522 S (PERISTALTIC PUMP)
L10 0 S L9 AND MICRPLATE?
L11 86 S L9 AND MICROPLATE?
L12 86 DUPLICATE REMOVE L11 (0 DUPLICATES REMOVED)
L13 44 S L12 AND VACUUM?
L14 29 S L13 AND PRESSURE?
L15 9 S L14 AND ARRAY?

L Number	Hits	Search Text	DB	Time stamp
-	100	albumin SAME renal SAME disease	USPAT; US-PGPUB	2002/07/08 15:02
-	5	(albumin SAME renal SAME disease) SAME detect	USPAT; US-PGPUB	2002/07/08 15:03
-	5	(albumin SAME renal SAME disease) SAME detects	USPAT; US-PGPUB	2002/07/08 15:03
-	15	(albumin SAME renal SAME disease) SAME detection	USPAT; US-PGPUB	2002/07/08 17:41
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-	2944	422/100	USPAT; US-PGPUB	2002/07/08 17:42
-	0	422/100 SAME gasket	USPAT; US-PGPUB	2002/07/08 17:43
-	203	422/100 and gasket	USPAT; US-PGPUB	2002/07/08 17:45
-	148	(422/100 and gasket) and plate	USPAT; US-PGPUB	2002/07/08 17:46
-	82	((422/100 and gasket) and plate) AND pump	USPAT; US-PGPUB	2002/07/08 17:46
-	59	(((422/100 and gasket) and plate) AND pump) AND vacuum	USPAT; US-PGPUB	2002/07/08 17:46